

Title (en)

SEQUENTIAL OPTIMIZATIONS FOR TREATMENT PLANNING

Title (de)

SEQUENZIELLE OPTIMIERUNG EINER BEHANDLUNGSPLANUNG

Title (fr)

OPTIMISATIONS SÉQUENTIELLES POUR PLANIFICATION DE TRAITEMENT

Publication

EP 2349480 A4 20120725 (EN)

Application

EP 09822371 A 20090828

Priority

- US 2009055341 W 20090828
- US 10799708 P 20081023
- US 49279309 A 20090626

Abstract (en)

[origin: US2010104068A1] A method and apparatus for radiation treatment planning are described. The method includes receiving a plurality of radiation treatment-planning parameters, and sequentially optimizing the plurality of radiation treatment-planning parameters.

IPC 8 full level

A61N 5/10 (2006.01)

CPC (source: EP US)

A61N 5/10 (2013.01 - US); **A61N 5/103** (2013.01 - US); **A61N 5/1031** (2013.01 - EP US); **A61N 5/1042** (2013.01 - US);
A61N 5/1083 (2013.01 - EP US)

Citation (search report)

- [A] US 6038283 A 20000314 - CAROL MARK P [US], et al
- [X] SCHLAEFER A ET AL: "Stepwise multi-criteria optimization for robotic radiosurgery", MEDICAL PHYSICS, AIP, MELVILLE, NY, US, vol. 35, no. 5, 28 April 2008 (2008-04-28), pages 2094 - 2103, XP012116071, ISSN: 0094-2405, DOI: 10.1118/1.2900716
- [A] POPPLE RICHARD ET AL: "Simultaneous optimization of sequential IMRT plans", MEDICAL PHYSICS, AIP, MELVILLE, NY, US, vol. 32, no. 11, 14 October 2005 (2005-10-14), pages 3257 - 3266, XP012075184, ISSN: 0094-2405, DOI: 10.1118/1.2064849
- [A] EVERT WOULDSTRA ET AL: "A comparison of an algorithm for automated sequential beam orientation selection (Cycle) with simulated annealing; Comparison of inverse planning algorithms for optimal beam orientation selection", PHYSICS IN MEDICINE AND BIOLOGY, TAYLOR AND FRANCIS LTD. LONDON, GB, vol. 53, no. 8, 21 April 2008 (2008-04-21), pages 2003 - 2018, XP020133949, ISSN: 0031-9155
- See references of WO 2010047878A1

Citation (examination)

JAN J WILKENS ET AL: "IMRT treatment planning based on prioritizing prescription goals; IMRT planning based on prioritized prescription goals", PHYSICS IN MEDICINE AND BIOLOGY, INSTITUTE OF PHYSICS PUBLISHING, BRISTOL GB, vol. 52, no. 6, 21 March 2007 (2007-03-21), pages 1675 - 1692, XP020113247, ISSN: 0031-9155, DOI: 10.1088/0031-9155/52/6/009

Cited by

US9956428B2; US10350436B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

US 2010104068 A1 20100429; US 8180020 B2 20120515; CN 102264435 A 20111130; EP 2349480 A1 20110803; EP 2349480 A4 20120725; JP 2012506724 A 20120322; US 2012203053 A1 20120809; US 9044602 B2 20150602; WO 2010047878 A1 20100429

DOCDB simple family (application)

US 49279309 A 20090626; CN 200980152237 A 20090828; EP 09822371 A 20090828; JP 2011533197 A 20090828; US 2009055341 W 20090828; US 201213446883 A 20120413